

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 41   | catalyst same (deterioration degradation) same reformer and temperature with sensor\$1  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 15:05 |
| S2    | 2    | "20040205998"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 13:44 |
| S3    | 767  | (48/198.7,127.9).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 13:44 |
| S4    | 2308 | (429/19-21,24).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 13:45 |
| S5    | 259  | S3 and catalyst same reformer.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 13:47 |
| S6    | 483  | S4 and catalyst same reformer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 13:47 |
| S7    | 31   | S3 and catalyst same reformer and (regeneration degradation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:02 |
| S8    | 83   | S4 and catalyst same reformer and (regeneration degradation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:02 |
| S9    | 11   | S3 and catalyst same reformer and (regeneration degradation) and temperature same (sensor measure\$4)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:01 |
| S10   | 34   | S4 and catalyst same reformer and (regeneration degradation) and temperature same (sensor measure\$4)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:01 |
| S11   | 31   | S3 and catalyst same reformer and (regeneration degradation de-activation de adj activation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:01 |
| S12   | 34   | S4 and catalyst same reformer and (regeneration degradation de-activation de adj activation) and temperature same (sensor measure\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/26 14:01 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S13 | 11  | S3 and catalyst same reformer and (regeneration degradation de-activation de adj activation) and temperature same (sensor measure\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:01 |
| S14 | 48  | S3 and catalyst same reformer and (regeneration degradation deterioration)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:02 |
| S15 | 110 | S4 and catalyst same reformer and (degradation deterioration)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:02 |
| S16 | 17  | S3 and catalyst same reformer same (regeneration degradation deterioration)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:02 |
| S17 | 34  | S4 and catalyst same reformer same (degradation deterioration)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:02 |
| S18 | 11  | S3 and catalyst same reformer same (degradation deterioration)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 14:02 |
| S19 | 30  | "4642273"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/26 15:05 |
| S20 | 28  | "4642273"   | USPAT   | OR | OFF | 2006/02/26 16:29 |
| S21 | 1   | "6641944".pn. and "90"  | USPAT   | OR | OFF | 2006/02/26 16:29 |

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| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 293  | (degrad\$3 deactiv\$3 de adj activ\$3 deteriorat\$3) same catal\$4 same reform\$3 and (temperature with measure\$5 sensor) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/27 15:23 |
| S7    | 582  | (degrad\$3 or deactiv\$3 or de adj activ\$3 or detriorat\$3) same catalyst same reform\$3                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/27 15:28 |